

PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application : Noa M. Rensing et al.
Application No. :
Filed : HEREWITH
For : MICRO-ELECTROMECHANICAL OPTICAL SWITCH ASSEMBLY
FOR OPTICAL DATA NETWORKS
Examiner :
Attorney's Docket : MIOPT-008XX

Group Art Unit:

I hereby certify that this correspondence is being deposited with the
United States Postal Service as first class mail in an envelope
addressed to: Commissioner for Patents, Washington, D.C. 20231 on
_____.

By: _____
Beverly E. Hjorth
Registration No. 32,033
Attorney for Applicants

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Washington, D.C. 20231

Sir:

It is desired to cite for the record in this application the
enclosed references listed on the attached copy of PTO Form #1449. The
paragraph(s) marked below are applicable to this Information Disclosure
Statement.

- [X] (1) Pursuant to 37 C.F.R. § 1.97(b)(1) and (2), the attached
Information Disclosure Statement is being filed within three
months of the filing date of the above identified national
application or within three months of the date of entry of the
national stage as set forth in 37 C.F.R. § 1.491 of the above
identified application. Accordingly, applicant(s) believes that
no fee or statement under 37 C.F.R. § 1.97(e) is required.

- [] (2) Pursuant to 37 C.F.R. § 1.97(b)(3), applicant(s) believes the attached Information Disclosure Statement is being filed before the mailing date of a first Office action on the merits. Accordingly, applicant(s) believes that no fee or statement under 37 C.F.R. § 1.97(e) is required.
- [] (3) Pursuant to 37 C.F.R. § 1.97(b)(4), applicant(s) believes the attached Information Disclosure Statement is being filed before the mailing date of a first Office action after the filing of a request for continued examination under § 1.114. Accordingly, applicant(s) believes that no fee or statement under 37 C.F.R. § 1.97(e) is required.
- [] (4) Pursuant to 37 C.F.R. § 1.97(c), the attached Information Disclosure Statement is being filed before the mailing date of a final action or a notice of allowance and is accompanied by:
- [] a statement under 37 CFR § 1.97(e); or
- [] the fee set forth in § 1.17(p).

PETITION UNDER 37 CFR § 1.97(d)

- [] (5) Pursuant to 37 CFR § 1.97(d), applicant(s) hereby petitions the Commissioner to consider the attached Information Disclosure Statement which is being filed on or before payment of the issue fee. This petition is accompanied by a statement under 37 C.F.R. § 1.97(e) and the petition fee set forth in 37 C.F.R. § 1.17(p).

STATEMENT UNDER 37 C.F.R. § 1.97(e)(1)

- [] (6) The undersigned hereby states that each item of information contained in the attached Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.

STATEMENT UNDER 37 C.F.R. § 1.97(e)(2)

- [] (7) The undersigned hereby states that no item of information contained in the attached Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in the attached Information Disclosure Statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

Application No.
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The filing of this Information Disclosure Statement is not a representation by the undersigned as to personal knowledge of the contents of every word or phrase of the material enclosed or that reliance on other suitably trained professionals has not been made.

If a search report of a searching agency is enclosed identifying the nature of the relevance of each document, such a designation is deemed to satisfy 37 C.F.R. § 1.98(a)(3) even if in a foreign language because the codes are the same in all languages. However, applicant(s) does not necessarily adopt the position reflected by that report.

The references cited and enclosed herein are cited in the subject specification.

The Commissioner is hereby authorized to charge payment of any additional fees associated with this communication or credit any overpayment to Deposit Account No. 23-0804. Triplicate copies of this letter are enclosed.

Respectfully submitted,

NOA M. RENSING ET AL.

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Enclosures

Date: March 5, 2002

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Form PTO-1449
(REV. 07/01)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
MIOPT-008XX

APPLICATION NO.

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

APPLICANT: NOA M. RENSING ET AL.

FILING DATE
Herewith

GROUP

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE*
	6,091,967	07/18/2000	Kruys et al.	455	557	
	6,031,946	02/29/2000	Bergmann et al.	385	18	
	6,096,155	08/01/2000	Harden et al.	156	250	
	5,771,218	06/23/98	Feldman et al.	369	112	
	6,201,629	03/13/2001	McClelland et al.	359	223	
	5,257,334	10/26/93	Takahashi	385	65	
	5,321,785	06/14/94	Iida et al.	385	85	

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

	H. Toshiyoshi and H. Fujita, <i>Electrostatic micro torsion mirrors for an optical switch matrix</i> , J. Microelectromechanical Systems , 5(4) 1996. pp. 231-237.
	Callaway et al. <i>Array Light Valve Switches Information Signals Between Fiber Optic Signal Conductors</i> , IBM Technical Disclosure Bulletin , 27(2) 1984 pp. 1119-1120.
	M.F. Dautartas et al., <i>Silicon Based Moving Mirror Optical Switch</i> , J. Lightwave Tech. 10(8) 1992, pp. 1078-1085.
	K.E. Peterson, <i>Silicon torsional scanning mirror</i> , IBM J. Res. Develop. , 24, 1980, pp. 631-637.
	Peter Heywood, <i>Dark Horse Joins Optical Switch Race</i> , Light Reading - The Global Site for Optical Networking , www.lightreading.com , March 5, 2002, pp. 1-2.
	<i>The Demand for All-Optical Switching</i> , C-Speed - Overview and C-Speed - Core Technologies , www.cspeed.com , March 5, 2002.
	<i>OMM - MEMS Switch Products</i> , OMM, Inc. - 2D Products Brochure , www.omminc.com , March 5, 2002.
	U. Breng et al., <i>Electrostatic micromechanic actuators</i> , J. Micromechanics and Microengineering , 2(4) December 1992, pp. 256-261.

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.